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APPLICATION NO). F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,244	10/804,244 03/18/2004		Katsunari Oikawa	TAW-008	7471
959	7590	06/09/2006		EXAMINER	
LAHIVE & COCKFIELD 28 STATE STREET				WYSZOMIERSKI, GEORGE P	
BOSTON,		09		ART UNIT	PAPER NUMBER
•				1742	
				DATE MAILED: 06/09/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary 10/804,244 OIKAWA ET AL. Examiner Art Unit	
	
George P. Wyszomierski 1742	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply	•
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAY WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	
Status	
1) Responsive to communication(s) filed on	
2a) This action is FINAL . 2b) This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits	s is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims	
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) 8 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 	
Application Papers	
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.12 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152 	
Priority under 35 U.S.C. § 119	
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	
Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/25/04. S Patent and Trademath Office 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:	

Application/Control Number: 10/804,244 Page 2

Art Unit: 1742

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-7, drawn to an alloy, classified in class 148, subclass 402.
- II. Claim 8, drawn to a method, classified in class 148, subclass 563.

2. The inventions are independent or distinct, each from the other because:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by a materially different process, such as a vapor deposition process.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.

3. During a telephone conversation with the office of Anthony Laurentano on June 2, 2006 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-7. Affirmation of this election must be made by applicant in replying to this Office action. Claim 8 is withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Application/Control Number: 10/804,244 Page 3

Art Unit: 1742

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2002-129273, or over the Oikawa et al. <u>Applied Physics Letters</u> article.

Both JP '273 and Oikawa et al. disclose shape memory alloys comprising Co, Ni and Al, and including both a beta phase and a gamma fcc phase; see the English Abstract of JP '273 or page 3290 of Oikawa. The prior art discloses examples of alloys that meet the compositional limitations of claims 5, 6 and 7; see the Table in column 11 of JP '273 or page 3291 of Oikawa.

The prior art does not specify the percentage of grain boundaries occupied by gamma phase, or the overall amount by volume of gamma phase in the prior art alloys, as required by the instant claims. However, given that the prior art compositions are substantially the same as those claimed, and appear to be made by substantially similar

processes as those of the present invention, it is a reasonable assumption that the crystal structures of the prior art alloys are likewise substantially the same as those of the present invention.

Consequently, a prima facie case of obviousness is established between the disclosures of JP '273 or Oikawa et al., and the presently claimed invention.

- 7. The remainder of the art cited on the attached PTO-892 and 1449 forms is of interest. This art is held to be no more relevant to the claimed invention than the art as applied in the rejections, supra.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. All patent application related correspondence transmitted by facsimile must be directed to the <u>new central facsimile number</u>, (571)-273-8300. This new Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GEORGE WYSZÓMIERSM PRIMARY EXAMINET

GPW June 6, 2006